



PTO/SB/08A (08-03)

<b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b>  (use as many sheets as necessary)			<b>Complete If Known</b>		
			Application Number	09/970,453	
			Filing Date	October 2, 2001	
			First Named Inventor	Eyal, Shulamit	
			Art Unit	1641	
Sheet	1	of	8	Examiner Name	Cook, Lisa V.
				Attorney Docket Number	20174C-002410US

U.S. PATENT DOCUMENTS+					
Examiner Initials*	Cite No. <sup>1</sup>	Document Number Number Kind Code <sup>2</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
LVC	A1	US-3,570,515	03-18-1971	Kinner	
	A2	US-3,747,828	07-24-1973	Holster et al.	
	A3	US-4,048,159	09-08-1977	Pegourie	
	A4	US-4,119,368	10-10-1978	Yamakazi	
	A5	US-4,153,855	05-08-1979	Feingold	
	A6	US-4,245,873	01-20-1981	Boutelle et al.	
	A7	US-4,434,704	03-08-1984	Surjaatmadja	
	A8	US-4,898,582	02-08-1990	Faste	
	A9	US-5,085,562	02-04-1992	Van Lintel	
	A10	US-5,088,515	02-18-1992	Kamen	
	A11	US-5,096,388	03-17-1992	Weinberg	
	A12	US-5,126,115	08-30-1992	Fujita et al.	
	A13	US-5,184,558	11-17-1992	Huff et al.	
	A14	US-5,171,132	12-15-1992	Miyazaki	
	A15	US-5,224,843	07-06-1993	Van Lintel	
	A16	US-5,259,737	11-09-1993	Kamtsuki et al.	
	A17	US-5,265,327	11-30-1993	Paris et al.	
	A18	US-5,290,240	03-01-1994	Morae, Jr.	
	A19	US-5,338,082	08-09-1994	Richter	
	A20	US-5,346,372	09-13-1994	Naruse et al.	
	A21	US-5,375,879	12-27-1994	Treh	
	A22	US-5,376,252	12-27-1994	Ekstrom	
	A23	US-5,400,741	03-28-1995	DeTitta et al.	
	A24	US-5,423,267	08-13-1995	Usami et al.	
	A25	US-5,529,485	08-28-1996	Zengert et al.	
	A26	US-5,593,130	01-14-1997	Hansson et al.	
	A27	US-5,642,015	08-24-1997	Whitehead et al.	
	A28	US-5,659,171	08-19-1997	Young et al.	
	A29	US-5,660,370	08-26-1997	Webster	
	A30	US-5,681,024	10-28-1997	Liseo et al.	
	A31	US-5,705,018	01-06-1998	Hartley	
	A32	US-5,759,014	08-02-1998	Van Lintel	
	A33	US-5,775,371	07-07-1998	Pen et al.	
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	A35	US-5,842,787	12-01-1998	Kopf-Sill et al.	
	A36	US-5,875,817	03-02-1999	Carter	
	A37	US-5,878,187	03-02-1999	Afromowitz	
	A38	US-5,932,799	08-03-1999	Motes	
	A39	US-5,942,443	08-24-1999	Parce et al.	
	A40	US-6,007,309	12-28-1999	Hartley	
	LVC	A41	US-6,043,080	03-28-2000	Lipshutz et al.

Examiner Signature	<i>Lisa V. Cook</i>	Date Considered	1/11/05
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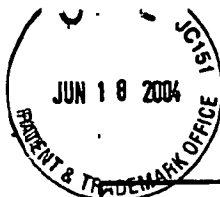
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			First Named Inventor	Eyal, Shulamit	
			Art Unit	1641	
			Examiner Name	Cook, Lisa V.	
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U.S. PATENT DOCUMENTS <sup>+</sup>					
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LVC	A42	US-6,123,769	09-28-2000	Sanjoh	
	A43	US-6,155,282	12-05-2000	Zachary et al.	
	A44	US-6,174,365 B1	01-16-2001	Sanjoh	
	A45	US-6,296,673 B1	10-02-2001	Santaralero et al.	
LVC	A46	US-6,409,832 B1	06-25-2002	Weigl et al.	

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Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>2</sup>
		Country Code <sup>3</sup>	Number <sup>4</sup>	Kind Code <sup>5</sup> (if known)				
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	B9	GB	2 308 460	A	06-25-1997			<input type="checkbox"/>
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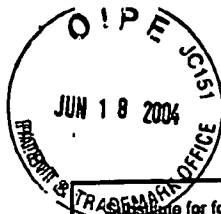
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L/C	C1	"Acousto-Optic Modulators" available at <a href="http://www.brimrose.com/acousto_modulators.html">www.brimrose.com/acousto_modulators.html</a> , 9-27-2000	
	C2	AHN et al., "Fluid Micropumps Based on Rotary Magnetic Actuators," Proceedings of 1995 IEEE Micro Electro Mechanical Systems Workshop (MEMS '95), held in Amsterdam, Netherlands on 1/29-2/2/1995, pgs. 408-412.	
	C3	BENARD et al., "A Titanium-Nickel Shape-Memory Alloy Actuated Micropump," Proceedings of Transducers '97, 1997 International Conference on Solid-State Sensors and Actuators, held in Chicago, IL, 6/16-19/1997, 1:361-364 (1997).	
	C4	BRECHTEL et al., "Control of the electroosmotic flow by metal-salt-containing buffers", J Chromatography A, 1995, pp. 97-105, Vol. 716	
	C5	BRYZEK et al., "Micromachines on the March", IEEE Spectrum, 1994, pp. 20-31, Vol. 31, No. 5	
	C6	BUCHAILLOT et al., "Silicon nitride thin films Young's modulus determination by an optical non-destructive method", Jpn. J Appl Phys, 1995, pp. L794-L797, Vol. 36, No. 2:6B	
	C7	CHIU et al., "Patterned Deposition of Cells and Proteins onto Surfaces by Using Three-Dimensional Microfluidic Systems", Proc. Natl. Acad. Sci., 2000, pp. 2408-2413, Vol. 97, No. 6	
	C8	DELAMARCHE et al., "Patterned delivery of immunoglobulins to surfaces using microfluidic networks", Science, 1997, pp. 779-781, Vol. 276	
	C9	DUFFY et al. "Patterning Electroluminescence Materials with Feature Sizes as Small as 5um Using Elastomeric Membranes as Masks for Dry Lift-Off", Advanced Materials, 1999, pp. 546-552, Vol. 11, No. 7	
	C10	DUFFY et al. "Rapid Prototyping of Microfluidic Switches in Poly(dimethylsiloxane) and Their Actuation by Electro-Osmotic Flow" Journal of Microeng, 1999, pp. 211-217, Vol. 9	
	C11	DUFFY et al. "Rapid Prototyping of Microfluidic Systems in Poly(dimethylsiloxane)", Analytical Chemistry, 1998, pp. 4974-4984, Vol. 70, No. 23.	
L/C	C12	EFFENHAUSER et al., "Integrated capillary electrophoresis on flexible silicone microdevices: Analysis of DNA restriction fragments and detection of single DNA molecules on microchips", Anal. Chem, 1997, pp. 3451-3457, Vol. 69.	

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NON PATENT LITERATURE DOCUMENTS				
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.		T <sup>2</sup>
LVC	C13	EFFENHAUSER et al.; "Integrated chip-based capillary electrophoresis", Electrophoresis, 1997, pp. 2203-2213, Vol. 18		
	C14	FAHRENBERG et al. "A microvalve system fabricated by thermoplastic molding", J Micromech Microeng, 1995, pp.169-171, Vol. 5		
	C15	GASS et al., "Integrated flow-regulated silicon micropump," Sensors and Actuators A Physical, 1994, p. 335-338, Vol. 43.		
	C16	GERLACH, T., "Pumping Gases by a Silicon Micro Pump with Dynamic Passive Valves," Proceedings of Transducers '97, 1997 International Conference on Solid-State Sensors and Actuators, held in Chicago, IL, 6/16-19/1997, pp. 357-360, Vol. 1.		
	C17	GOLL et al., "Microvalves with bistable buckled polymer diaphragms," J. Micromech. Microeng., 1996, pp.77-79, Vol. 6		
	C18	GRAVESEN et al.; "Microfluids- A Review", Journal Micromech Microeng, 1993, pp. 168-192, Vol. 3		
	C19	HARRISON et al., "Micromachining a Miniaturized Capillary Electrophoresis-Based Chemical Analysis System on a Chip," Science, 1993, pp.895-897, Vol. 261		
	C20	HORNBECK et al., "Bistable Deformable Mirror Device," Spatial Light Modulators and Applications 1988 Technical Digest Series, Volume 8, Postconference Edition, Summaries of papers presented at the Spatial Light Modulators and Applications Topical Meeting, June 15-17, 1988, Optical Society of America, pgs. 107-110.		
	C21	HOSOKAWA et al., "Handling of Pico-liter Liquid Samples in a Poly(dimethylsiloxane)-Based Microfluidic Device," Anal. Chem., 1999, 71(20):4781-4785		
	C22	IKUTA et al., "Three dimensional micro integrated fluid systems (MIFS) fabricated by stereo lithography," IEEE Kyushu Institute of Technology, 1994, pp. 1-6.		
	C23	JACOBSON et al., "High-speed separations on a microchip," Anal. Chem., 1994, 66(7):1114-1118.		
LVC	C24	JACOBSON et al., "Microfluidic Devices for Electrokinetically Driven Parallel and Serial Mixing," Anal. Chem., 1999, 71(20):4455-4459.		

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LVC	C25	JERMAN, H., "Electrically-Activated, Normally-Closed Diaphragm Valves," Proceedings of Transducers '91, 1991 International Conference on Solid-State Sensors and Actuators, pages 1045-1048 (1991).	
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	C27	KENIS et al. "Microfabrication Inside Capillaries Using Multiphase Laminar Flow Patterning," Science, 1999, 285:83-85.	
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	C29	KOPP et al. "Chemical Amplification: Continuous-Flow PCR on a Chip", Science, 1998, 280:1048-1048.	
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	C32	LÖTTERS et al. "The mechanical properties of the rubber elastic polymer polydimethylsiloxane for sensor applications," J. Micromech. Microeng., 1997, 7:145-147.	
	C33	LUCY et al., "Characterization of the Cationic Surfactant Induced Reversal of Electroosmotic Flow in Capillary Electrophoresis," Anal. Chem., 1998, pp. 300-305, Vol. 68.	
	C34	MALUF, N., An Introduction to Microelectromechanical Systems Engineering, Artech House Publishers, Boston London pages 42-45. Year 2000, added LVC 10/10/09	
	C35	MULLER et al., "Surface-Micromachined Microoptical Elements and Systems," Proceedings of IEEE, 1998, 86(8):1705-1720.	
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SUBSTITUTE for form 1449B/PTO <b>INFORMATION DISCLOSURE STATEMENT BY APPLICANT</b> (use as many sheets as necessary)		<b>Complete if Known</b>	
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LVC	C37	PETHIG & MARKX "Applications of dielectrophoresis in biotechnology," Tibtech, 15:426-432 (1997).	
	C38	QIN et al., "Photolithography with transparent reflective photomasks," J. Vac. Sci. Technology, 16(1):98-103 (1998).	
	C39	QIN et al., "Elastomeric Light Valves***", Adv. Mater., 1997, pp.407-410, Vol. 9, No. 5.	
	C40	RAPP. R., "LIGA micropump for gases and liquids," Sensors and Actuators A, 1994, pp.57-61, Vol. 40.	
	C41	ROYLANCE et al., "A Batch-Fabricated Silicon Accelerometer", IEEE Transactions on Electron Devices, December 1979, pp. 1911-1917, Vol. ED-26, No. 12.	
	C42	SCHASFOORT et al., "Field-Effect Flow Control for Microfabricated Fluidic Networks," Science, 1999, 286:942-945.	
	C43	SCHUELLER et al., "Fabrication of glassy carbon microstructures by soft lithography," Sensors and Actuators, 72(2):125-139 (1999).	
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	C47	SOHN et al., "Capacitance cytometry: Measuring biological cells one by one," PNAS, 97(20):10687-10690 (2000).	
	C48	TUFTE et al., "Silicon Diffused-Element Piezoresistive Diaphragms," J. Appl. Phys., November 1962, pp. 3322-3327, Vol. 33, No. 11.	
LVC	C49	Ullmann's Encyclopedia of Industrial Chemistry, Sections 6 to 6.3, Topic: Carbon Black, Sixth Edition, 1999	

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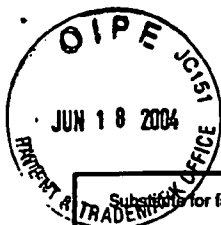
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LVC	C50	VAN DE POL et al., "Micro Liquid Handling Devices - A Review", Micro Systems Technologies, 1990, pp. 799-805, Vol. 90.	
	C51	VAN DE POL, F.C.M. et al. "A Thermo-Pneumatic Actuation Principle for a Microminiature Pump and Other Micromechanical Devices" Sensors and Actuators, 3 May 1989, pp. 139-143, Vol. 17, Nos. 1-2.	
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	C55	XIA et al., "Soft Lithography," Angew. Chem. Int. Ed., 1998, 37:551-575.	
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LVC	C61	Zengerle et al., "A Micro Membrane Pump with Electrostatic Actuation," 1992 IEEE Conf. on Micro Electro Mechanical Systems, held 2/4-7/92 in Travemunde Germany, pgs. 19-24.	

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Sheet	8	of	8	Attorney Docket Number	20174C-002410US

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials *	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T <sup>2</sup>
LVC	C62	Zengerle et al., "Performance Simulation of Microminiaturized Membrane Pumps," from 7th International Conference on Solid-State Sensors and Actuators held 6/7-10/93 in Yokohama Japan, pages 106-109	

Examiner Signature	<i>Lisa V. Cook</i>	Date Considered	1/11/05
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<sup>1</sup> EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>2</sup> Applicant's unique citation designation number (optional). <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.